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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/698,562	10/30/2003	Michael J. Neumann	10030590-1	10030590-1 1116	
7.	590 03/25/2005		EXAM	INER	
AGILENT TECHNOLOGIES, INC.			NGUYEN, TUYEN T		
Legal Departme				· · · · · · · · · · · · · · · · · · ·	
Intellectual Property Administration			ART UNIT	PAPER NUMBER	
P.O. Box 7599			2832		
Loveland, CO 80537-0599			DATE MAILED: 03/25/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/698,562	NEUMANN ET AL.				
		Examiner	Art Unit				
		TUYEN T. NGUYEN	2832				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)	Responsive to communication(s) filed on	_•					
2a)□		action is non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠	4)⊠ Claim(s) <u>1-17</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
·	5) Claim(s) is/are allowed.						
· —	6) Claim(s) <u>1-3,5-11 and 13-17</u> is/are rejected.						
·	Claim(s) <u>4 and 12</u> is/are objected to.						
اا(٥	Claim(s) are subject to restriction and/o	r election requirement.					
Applicati	ion Papers						
9)☐ The specification is objected to by the Examiner.							
10)ズ The drawing(s) filed on ½ీ/১/s̄s/are: a) accepted or b)ズ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (	ınder 35 U.S.C. § 119						
12)	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No.							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)				
Paper No(s)/Mail Date <u>10/30/2003</u> . 6) Other:							

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#### **DETAILED ACTION**

## **Drawings**

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the first gold layer [or the gold barrier layer] must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Hopfer [US 3,812,438].

Hopfer discloses an inductor [figure 2] comprising:

- a coil form [58] having a conical portion with a tip;
- an integrated contact [58] disposed on the tip of the coil form; and
- an inductor coil [62] wound around the coil form and electrically coupled to the integrated contact.

Regarding claim 3, Hopfer discloses the integrated contact comprises a plated tip portion of the coil form.

Regarding claim 10, Hopfer inherently discloses the integrated contact has a radius not greater than 250 microns.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 5-11 and 13-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oldfield [US 6,509,821] in view of Hopfer.

Oldfield discloses an inductor [figures 5A-5B] comprising:

- a poly-iron coil form [4] having a conical portion; and

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- an inductor coil [2] wound around the coil form.

Oldfield discloses the instant claimed invention except for an integrated contact.

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Hopfer discloses an inductor [figure 2] comprising:

- a coil form [58] having a conical portion with a tip;

- grooves [60] formed on the coil form;

- an integrated contact [58] plated on the tip of the coil form, wherein the integrated

contact has a radius not greater than 250 microns; and

- an inductor coil [62] wound around the coil form and electrically coupled to the

integrated contact.

It would have been obvious to one having ordinary skilled in the art at the time the

invention was made to include an integrated contact in the coil form of Oldfield, as suggested by

Hopfer, for the purpose of facilitating connections and surface mounting.

Regarding claims 7, 11 and 16, it would have been obvious to solder the end of the

inductor coil to the integrated contact for the purpose of providing strength to the electrical

connection.

Regarding claims 6, 13 and 16, it would have been an obvious design consideration to

include groove in the plated tip integrated contact, instead on the coil form, for the purpose of

supporting end portion of the inductor coil and providing mechanical strength to the connections.

Regarding claims 8 and 14, Hopfer inherently discloses the inductor coil wound not more

than one turn around the plated portion of the coil form.

Allowable Subject Matter

Claims 4 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Slenker [US 6,344,781 and US 6,236289].

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T. NGUYEN whose telephone number is 571-272-1996. The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTN HN

Trugen T. Nguyen